BRUHATH BANGALORE MAHANAGARA PALIKE

Ward 14, Bagalagunte

NAME OF WORK :	**Improvements to roads & drains at Navy Layout in Ward No 14, Bagalagunte**
Estimated Cost	**20.00 Lakhs**

Sl.No.	Description of work	Measurments				Qty	Unit	Rate	Amount
		No.s	L	B	D				
1	Earthwork excavation by manual means in Ordinary Soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts including Conveying the excavated earth silt, debris and over burden earth etc., to lead of 0 to 9 kms distance by using private vehicle this includes the cost of loading and unloading charges etc., complete as per the direction of Engineer-in-charge of the work..(PWD SR 2016-17, Page No.142, Item No. 19.1)								
		1	1	306.00	5.50	0.30	504.90			
					Total qty.		**504.90**	**cum**	**170.92**	**86298.00**
2	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.Page No 149/ Item No. 19.64 PWD SR 2016-17								
		1	1	306.00	5.50		1683.00			
					Total qty.		**1683.00**	**cum**	**5.30**	**8920.00**
3	KSRRB M400-1 For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. 20.6.1 PWD SR 2016-17								
		1	1	306.00	5.50	0.15	252.45			
					Total qty.		**252.45**	**cum**	**1518.98**	**383467.00**
4	Providing, laying, spreading and compacting stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Complete as per specifications. MORTH Specification No.406 [P.No.158- It.No20.18]								
		1	1	306.00	5.50	0.15	252.45			
					Total qty.		**252.45**	**cum**	**1768.08**	**446352.00**

	viding and applying primer coat with S.S bitumen emulsion on prepared surface granular base such as WMM including cleaning of road surface and spraying rimer at the rate of .60kg /sqm using mechanial means complete as per Specifications. (Pg.no.160, It.no.21.6)									
		1	1	306.00	5.50		1683.00			
					Total qty.		**1683.00**	**sqm**	**27.56**	**46383.00**
6	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.(Pg No.160 It. No.21.7)									
		2	1	306.00	5.50		3366.00			
					Total qty.		**3366.00**	**sqm**	**11.66**	**39248.00**
7	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.4% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2016-17, P.No.162, I No.21.11.6)									
		1	1	306.00	5.50	0.05	84.15			
					Total qty.		**84.15**	**sqm**	**5237.46**	**440732.00**
8	KSRRB M500-19. Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, pre mixed with bituminous binder and filler, transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment . Rolling with smooth wheeled Vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause no 500.9 complete in all respects complete as per specifications. MORTH specification No509, using 40/60 TPH capacity H.M.P.with Mechanical paver Gr -II (30mm to 45mm) with 5.4% VG-30Bitumen (P-165, It, 21.22.6.)									
		1	1	306.00	5.50	0.03	50.49			
					Total qty.		**50.49**	**cum**	**7270.54**	**367090.00**
9	Road marking with hot applied thermoplastic compound with Reflectrising Glass beads on bituminous surface-Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads aa per IRC : 35, the finished surface to be level uniform and free from streacks and holes complete as per specifications. (Page No.185, I No.24.15 of KPWD SR 2016-17)									
		1	0.5	306.00	0.15		22.95			
					Total qty.		**22.95**	**cum**	**542.72**	**12455.00**
									Sub Total	**1830945.00**
									Qc Charges 1%+KRIDL charges	**166476.00**

Miscelleneous and rounding off	2579.00
Total	2000000.00

(Rupees Twenty Lakhs Only)

CERTIFICATE

1. *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2. *Certified that the work is not split up*
3. *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17*
4. *Certified that Adequate & necessary provisions have made in the estimate.*
5. *Certified that the above area comes under BBMP limit*
6. *This Work is not included in any other work taken up*

Asst Engineer
Ward-14

Assistant Executive Engineer
Dasarahalli Sub Division
B.B.M.P

Excecutive Engineer
Dasarahalli Division
B.B.M.P

ನಂ. CE/AS/07/17-18 ದಿನಾಂಕ : 21/04/2017
ರೂ. Rs. 20.00 Lakhs only/-
.....ಗಳ
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/TS/08/17-18 ದಿನಾಂಕ : 27.4.17
ರೂ. Twenty lakhs only
.....
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

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